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1. THE STELLAR DATA CARDS WILL CONTAIN THE FOLLOWING INFORMATION ON ALL FUTURE TRANSMISSIONS.

2. CARD NUMBER 1 FORMAT FOLLOWS:

ITEM	DESCRIPTION	FIELD	FORMAT	DIMENSION
1	PASS NUMBER	1-3	XXX	COUNT
2	S/I FRAME NUMBER	4-7	XXXX	COUNT
3	A11 VARIANCE - CO-VARIANCE MATRIX ELEMENT	8-18	SX.XXXXXXXX	MINUTES SQUARED
4	A12 VARIANCE - CO-VARIANCE MATRIX ELEMENT	19-29	SX.XXXXXXXX	MINUTES SQUARED
5	A13 VARIANCE - CO-VARIANCE MATRIX ELEMENT	30-40	SX.XXXXXXXX	MINUTES SQUARED
6	A22 VARIANCE - CO-VARIANCE MATRIX ELEMENT	41-51	SX.XXXXXXXX	MINUTES SQUARED

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7	A23 VARIANCE - CO-VARIANCE MATRIX ELEMENT	52-62	SX.XXXXXXXX	MINUTES SQUARED
8	A33 VARIANCE - CO-VARIANCE MATRIX ELEMENT	63-73	SX.XXXXXXXX	MINUTES SQUARED
9	DEGREES OF FREEDOM	74-80	XXXXXXX	COUNT

LIMITATIONS AND DEFINITIONS

A. ITEMS 3 THRU 8 ARE ELEMENTS OF THE VARIANCE COVARIANCE MATRIX IN MINUTES OF ARC SQUARED. ONLY MEASUREMENT ERRORS ARE PROPOGATED AND THE TOTAL OF FIDUCIAL FIT AND STELLAR MEASUREMENTS MAKES UP THE SYMETRICAL MATRIX. THESE SIX VALUES ARE THE UPPER TRIANGULAR PORTION WHERE THE DIAGONAL ELEMENTS ARE - A11, THE YAW VARIANCE; A22, THE PITCH VARIANCE; AND A33, THE ROLL VARIANCE.

B. ITEM 9 IS THE COUNT INDICATING THE DEGREES OF FREEDOM (2 TIMES THE NUMBER OF IMAGES MINUS 3) USED IN THAT FRAME.

3. CARD NUMBER 2 FORMAT FOLLOWS:

ITEM	DESCRIPTION	FIELD	FORMAT	DIMENSION
1	PASS NUMBER	1-3	XXX	COUNT
2	MAIN FRAME NUMBER	4-10	XXXX.XX	COUNT
3	CALCULATED ROLL DEGREES	11-20	XXXXXX.XXX	DEGREES
4	CALCULATED PITCH DEGREES	21-30	XXXXXX.XXX	DEGREES

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5	CALCULATED YAW DEGREES	31-40	XXXXXX.XXX	DEGREES
6	PROGRAMMED ROLL DEGREES	41-48	XXXXX.XX	DEGREES
7	GMT OR MIDPOINT OF STELLAR	49-61	XXXXXXXX.XXX	SECONDS
8	S/I FRAME NUMBER	62-65	XXXX	COUNT
9	MAIN FRAME ATTITUDE	67	X	UNIT
10	STELLAR VARIANCE	68-74	XXXXX.X	MICRONS SQUARED
11	REQUESTED CONSTANT	80	X	CONSTANT - 3

LIMITATIONS AND DEFINITIONS

A. ITEMS 3 THRU 6 ARE RIGHT JUSTIFIED AND WILL BE PRECEDED BY SIGN IF NEGATIVE.

B. ITEM 9, MAIN FRAME MIRROR POSITION IS CODED. THE NUMBER 1 INDICATES FORWARD; 2 INDICATES AFT; 0 INDICATES VERTICAL; BLANK INDICATES INDEPENDENT.

C. ITEM 10 IS DEFINED AS THE SUM OF THE RESIDUALS OF THE STELLAR MEASUREMENTS SQUARED DIVIDED BY THE DEGREES OF FREEDOM (2 TIMES THE NUMBER OF STELLAR MEASUREMENTS MINUS 3).

T O P S E C R E T

-END OF MESSAGE-

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